

WHAT IS CLAIMED IS:

1. A recording/reproducing apparatus in which a recording signal is written onto a disk, comprising:
5 a buffer which temporarily stores said recording signal; and
a control circuit which controls the recording of the recording signal onto the disk during the recording of the recording signal onto the disk so as to interrupt the recording of the recording signal onto the disk when an amount of said recording signal data in said buffer is not greater than an interruption setting value, and to resume the recording of the recording signal onto the disk when the amount of said recording signal data in said buffer is not less than a resumption setting value during the recording of the recording signal onto said disk,

wherein said control circuit reproduces the signal written on said disk before the recording is resumed; records, based on this reproduced signal, the recording signal after
20 resuming the recording onto the disk in continuation with the recording signal before the interruption; and detects the recording properties of said disk based on the signal reproduced before said recording is resumed.

25 2. The apparatus according to claim 1 wherein, when recording is resumed, said control circuit sets recording conditions based on said detected recording properties.

3. A recording/reproducing apparatus which records a recording signal onto a disk and which has the functions of:

controlling the recording of the recording signal onto said disk so that the recording signal is recorded onto the disk at a constant linear speed; and

interrupting the recording of said recording signal onto the disk, reproducing the signal written on said disk before resuming a reproducing/recording operation, and detecting the recording properties of said disk based on the reproduced signal in order to set said linear speed.

4. The apparatus according to claim 3, further having the function of setting the linear recording speed when recording is resumed in accordance with said detected recording properties.

5. The apparatus according to claim 3, further having the function of setting the linear recording speed when recording is resumed in accordance with the recording properties detected based on the reproduced signal reproduced at the linear speed at the time of interruption of recording.

6. The apparatus according to claim 5, further having the functions of setting the linear recording speed to a speed higher than the linear speed at the time of interruption of recording and of resuming a recording operation, when the detected recording properties fulfill predetermined criteria.

7. The apparatus according to claim 5, further having the function of resuming a recording operation without changing the linear recording speed, when the detected recording properties fulfill predetermined criteria.

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8. The apparatus according to claim 5, further having the functions of reducing the linear recording speed and of resuming a recording operation, when the detected recording properties do not meet predetermined criteria.

9. The apparatus according to claim 5, further having the functions of lowering the linear recording speed and of resuming a recording operation, when the detected recording properties indicate that reproduction is not possible.

10. The apparatus according to claim 3, further having the function of comparing recording property data detected at a previous point of change of linear recording speed with the current recording property data to detect the recording properties.

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11. The apparatus according to claim 10, further having the function of setting the linear recording speed for resumption of recording based on a difference between the recording property data detected at the previous change time of the linear recording speed and the current recording property data.

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